

**Table C-64. Federal obligations for basic research performed at universities and colleges,
by detailed field of science and engineering:
fiscal years 1995, 1996, and 1997**

[Dollars in thousands]

Page 1 of 1

Field of science and engineering	1995	Preliminary	
		1996	1997
Total, all fields	6,909,852	7,703,420	7,374,382
Life sciences, total	3,715,185	4,375,404	4,031,424
Biological (excluding environmental)	1,868,843	NA	NA
Environmental biology	145,558	NA	NA
Agricultural	78,766	NA	NA
Medical	1,524,931	NA	NA
Life sciences, n.e.c.	97,087	NA	NA
Psychology, total	162,533	193,293	177,060
Biological aspects	8,855	NA	NA
Social aspects	12,195	NA	NA
Psychological sciences, n.e.c.	141,483	NA	NA
Physical sciences, total	975,889	1,051,815	1,050,384
Astronomy	141,351	NA	NA
Chemistry	312,685	NA	NA
Physics	455,444	NA	NA
Physical sciences, n.e.c.	66,409	NA	NA
Environmental sciences, total	577,849	567,657	577,077
Atmospheric	204,968	NA	NA
Geological	161,742	NA	NA
Oceanography	106,642	NA	NA
Environmental sciences, n.e.c.	104,497	NA	NA
Mathematics & computer sciences, total	313,803	377,881	359,060
Mathematics	131,654	NA	NA
Computer sciences	174,363	NA	NA
Mathematics & computer sciences, n.e.c.	7,786	NA	NA
Engineering, total	788,519	724,617	779,532
Aeronautical	42,438	NA	NA
Astronautical	12,027	NA	NA
Chemical	39,121	NA	NA
Civil	37,119	NA	NA
Electrical	140,914	NA	NA
Mechanical	119,698	NA	NA
Metallurgy & materials	235,736	NA	NA
Engineering, n.e.c.	161,466	NA	NA
Social sciences, total	112,070	121,009	117,565
Anthropology	10,786	NA	NA
Economics	22,311	NA	NA
Political science	6,590	NA	NA
Sociology	8,343	NA	NA
Social sciences, n.e.c.	64,040	NA	NA
Other sciences, n.e.c.	264,004	291,744	282,280

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal years 1995, 1996, and 1997.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal Funds Survey, refer to appendix A.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-65. Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1995

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	6,909,852	3,715,185	162,533	975,889	577,849	313,803	788,519	112,070	264,004
Departments:									
Department of Agriculture, total	192,870	158,837	0	9,577	1,390	1,341	6,706	15,019	0
Agricultural Research Service ¹	14,203	12,749	0	0	5	1,176	273	0	0
Cooperative State Research, Education, & Extension Service ²	169,287	138,349	0	9,577	1,121	0	6,196	14,044	0
Economic Research Service	318	0	0	0	0	0	0	318	0
Foreign Agricultural Service ³	86	86	0	0	0	0	0	0	0
Forest Service	8,976	7,653	0	0	264	165	237	657	0
Department of Defense, total	713,637	79,234	14,300	121,335	91,022	93,234	308,666	0	5,846
Department of the Army	71,100	10,793	1,819	15,257	6,259	10,064	26,908	0	0
Department of the Navy	210,598	17,221	9,404	40,184	52,242	23,075	63,137	0	5,335
Department of the Air Force	135,818	10,294	752	34,292	14,133	14,226	61,610	0	511
Defense Agencies, total	296,121	40,926	2,325	31,602	18,388	45,869	157,011	0	0
Ballistic Missile Defense Organization	3,000	0	0	2,200	0	0	800	0	0
Defense Advanced Research Projects Agency ⁴	28,561	0	0	0	0	13,510	15,051	0	0
Washington Headquarters Svcs ⁵	264,560	40,926	2,325	29,402	18,388	32,359	141,160	0	0
Department of Energy	369,311	57,654	0	211,327	50,152	13,272	36,767	0	139
Dept of Health & Human Svcs, total	3,555,562	3,095,781	134,770	70,052	7,112	18,135	54,406	36,270	139,036
National Institutes of Health ⁶	3,555,562	3,095,781	134,770	70,052	7,112	18,135	54,406	36,270	139,036
Other agencies:									
National Aeronautics & Space Admin	480,168	43,437	1,897	176,757	138,676	23,152	72,867	413	22,969
National Science Foundation	1,598,304	280,242	11,566	386,841	289,497	164,669	309,107	60,368	96,014

¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

² The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

³ The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

⁴ This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

⁵ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁶ Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-66. Preliminary Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	7,703,420	4,375,404	193,293	1,051,815	567,657	377,881	724,617	121,009	291,744
Departments:									
Department of Agriculture, total	188,434	155,436	0	9,256	1,362	1,403	6,504	14,473	0
Agricultural Research Service ¹	14,947	13,417	0	0	5	1,238	287	0	0
Cooperative State Research, Education, & Extension Service ²	164,233	134,291	0	9,256	1,078	0	5,980	13,628	0
Economic Research Service	188	0	0	0	0	0	0	188	0
Foreign Agricultural Service ³	89	89	0	0	0	0	0	0	0
Forest Service	8,977	7,639	0	0	279	165	237	657	0
Department of Defense, total	659,364	52,511	14,519	121,421	82,804	149,291	231,890	0	6,928
Department of the Army	80,124	7,413	1,753	16,710	4,625	8,731	40,892	0	0
Department of the Navy	191,453	15,462	8,055	37,183	46,943	20,786	56,763	0	6,261
Department of the Air Force	122,919	13,171	567	27,668	14,421	18,429	47,996	0	667
Defense Agencies, total	264,868	16,465	4,144	39,860	16,815	101,345	86,239	0	0
Ballistic Missile Defense Organization	2,314	0	0	1,364	0	0	950	0	0
Defense Advanced Research Projects Agency ⁴	26,563	0	0	158	0	12,033	14,372	0	0
Washington Headquarters Svcs ⁵	235,991	16,465	4,144	38,338	16,815	89,312	70,917	0	0
Department of Energy	432,660	55,704	0	277,263	46,585	14,220	38,888	0	0
Dept of Health & Human Svcs, total	4,351,544	3,788,889	164,924	85,725	8,703	22,193	66,579	44,386	170,145
National Institutes of Health ⁶	4,351,544	3,788,889	164,924	85,725	8,703	22,193	66,579	44,386	170,145
Other agencies:									
National Aeronautics & Space Admin	480,168	43,437	1,897	176,757	138,676	23,152	72,867	413	22,969
National Science Foundation	1,591,250	279,427	11,953	381,393	289,527	167,622	307,889	61,737	91,702

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³ The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

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⁶ Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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Table C-67. Preliminary Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	7,374,382	4,031,424	177,060	1,050,384	577,077	359,060	779,532	117,565	282,280
Departments:									
Department of Agriculture, total	198,942	167,395	0	9,191	1,153	1,403	6,195	13,605	0
Agricultural Research Service ¹	14,947	13,417	0	0	5	1,238	287	0	0
Cooperative State Research, Education, & Extension Service ²	174,741	146,250	0	9,191	869	0	5,671	12,760	0
Economic Research Service	188	0	0	0	0	0	0	188	0
Foreign Agricultural Service ³	89	89	0	0	0	0	0	0	0
Forest Service	8,977	7,639	0	0	279	165	237	657	0
Department of Defense, total	647,104	51,457	13,926	111,535	77,167	112,136	273,696	24	7,163
Department of the Army	74,892	7,626	1,881	15,384	3,764	8,145	38,068	24	0
Department of the Navy	198,812	15,754	8,378	38,676	48,829	21,621	59,042	0	6,512
Department of the Air Force	125,593	13,834	551	30,422	8,075	20,070	51,990	0	651
Defense Agencies, total	247,807	14,243	3,116	27,053	16,499	62,300	124,596	0	0
Ballistic Missile Defense Organization	3,314	0	0	2,050	0	0	1,264	0	0
Defense Advanced Research Projects Agency ⁴	25,850	0	0	239	0	10,877	14,734	0	0
Washington Headquarters Svcs ⁵	218,643	14,243	3,116	24,764	16,499	51,423	108,598	0	0
Department of Energy	439,998	53,731	0	279,967	47,540	19,520	39,240	0	0
Dept of Health & Human Svcs, total	3,928,435	3,420,488	148,888	77,391	7,857	20,035	60,105	40,070	153,601
National Institutes of Health ⁶	3,928,435	3,420,488	148,888	77,391	7,857	20,035	60,105	40,070	153,601
Other agencies:									
National Aeronautics & Space Admin	480,168	43,437	1,897	176,757	138,676	23,152	72,867	413	22,969
National Science Foundation	1,679,735	294,916	12,349	395,543	304,684	182,814	327,429	63,453	98,547

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Table C-68. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1995

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	162,533	8,855	12,195	141,483	3,715,185	1,868,843	145,558	78,766	1,524,931	97,087
Departments:										
Department of Agriculture, total	0	0	0	0	158,837	50,316	25,356	78,466	4,693	6
Agricultural Research Service ¹	0	0	0	0	12,749	3,165	455	9,123	0	6
Cooperative State Research, Education, & Extension Service ²	0	0	0	0	138,349	43,208	21,191	69,257	4,693	0
Foreign Agricultural Service ³	0	0	0	0	86	0	0	86	0	0
Forest Service	0	0	0	0	7,653	3,943	3,710	0	0	0
Department of Defense, total	14,300	6,180	5,379	2,741	79,234	24,882	20,072	0	33,966	314
Department of the Army	1,819	0	1,819	0	10,793	3,383	88	0	7,008	314
Department of the Navy	9,404	4,693	3,367	1,344	17,221	9,521	6,350	0	1,350	0
Department of the Air Force	752	281	193	278	10,294	6,353	3,941	0	0	0
Defense Agencies, total	2,325	1,206	0	1,119	40,926	5,625	9,693	0	25,608	0
Washington Headquarters Svcs ⁴	2,325	1,206	0	1,119	40,926	5,625	9,693	0	25,608	0
Department of Energy	0	0	0	0	57,654	56,016	0	0	0	1,638
Dept of Health & Human Svcs, total	134,770	0	0	134,770	3,095,781	1,517,313	27,729	0	1,478,909	71,830
National Institutes of Health ⁵	134,770	0	0	134,770	3,095,781	1,517,313	27,729	0	1,478,909	71,830
Other agencies:										
National Aeronautics & Space Admin	1,897	85	190	1,622	43,437	17,804	1,765	300	7,363	16,205
National Science Foundation	11,566	2,590	6,626	2,350	280,242	202,512	70,636	0	0	7,094

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**Table C-69. Federal obligations for basic research performed at universities and colleges
in physical and environmental sciences, by agency and detailed field of science:
fiscal year 1995**

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	975,889	141,351	312,685	455,444	66,409	577,849	204,968	161,742	106,642	104,497
Departments:										
Department of Agriculture, total	9,577	0	9,577	0	0	1,390	1,310	75	0	5
Agricultural Research Service ¹	0	0	0	0	0	5	0	0	0	5
Cooperative State Research, Education, & Extension Service ²	9,577	0	9,577	0	0	1,121	1,121	0	0	0
Forest Service	0	0	0	0	0	264	189	75	0	0
Department of Defense, total	121,335	5,402	59,936	55,991	6	91,022	24,091	25,520	39,028	2,383
Department of the Army	15,257	0	6,870	8,381	6	6,259	2,830	1,001	45	2,383
Department of the Navy	40,184	2,347	15,904	21,933	0	52,242	9,233	13,490	29,519	0
Department of the Air Force	34,292	2,602	24,211	7,479	0	14,133	5,261	8,872	0	0
Defense Agencies, total	31,602	453	12,951	18,198	0	18,388	6,767	2,157	9,464	0
Ballistic Missile Defense Organization	2,200	0	860	1,340	0	0	0	0	0	0
Washington Headquarters Svcs ³	29,402	453	12,091	16,858	0	18,388	6,767	2,157	9,464	0
Department of Energy	211,327	0	37,308	173,996	23	50,152	27,813	17,551	4,472	316
Dept of Health & Human Svcs, total	70,052	0	62,229	7,823	0	7,112	0	0	0	7,112
National Institutes of Health ⁴	70,052	0	62,229	7,823	0	7,112	0	0	0	7,112
Other agencies:										
National Aeronautics & Space Admin	176,757	87,808	5,239	50,396	33,314	138,676	51,056	18,826	12,785	56,009
National Science Foundation	386,841	48,141	138,396	167,238	33,066	289,497	100,698	99,770	50,357	38,672

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Table C-70. Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1995

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	788,519	42,438	12,027	39,121	37,119	140,914	119,698	235,736	161,466
Departments:									
Department of Agriculture, total	6,706	0	0	0	0	0	0	0	6,706
Agricultural Research Service ¹	273	0	0	0	0	0	0	0	273
Cooperative State Research, Education, & Extension Service ²	6,196	0	0	0	0	0	0	0	6,196
Forest Service	237	0	0	0	0	0	0	0	237
Department of Defense, total	308,666	15,744	1,575	3,722	4,472	102,464	64,428	79,824	36,437
Department of the Army	26,908	458	0	300	2,964	10,814	4,070	7,582	720
Department of the Navy	63,137	0	0	0	0	21,212	22,040	19,885	0
Department of the Air Force	61,610	8,533	1,575	0	0	13,647	6,406	11,449	20,000
Defense Agencies, total	157,011	6,753	0	3,422	1,508	56,791	31,912	40,908	15,717
Ballistic Missile Defense Organization	800	275	0	0	0	525	0	0	0
Defense Advanced Research Projects Agency ³	15,051	0	0	0	0	2,571	0	8,805	3,675
Washington Headquarters Svcs ⁴	141,160	6,478	0	3,422	1,508	53,695	31,912	32,103	12,042
Department of Energy	36,767	0	0	5,892	69	80	8,399	17,868	4,459
Dept of Health & Human Svcs, total	54,406	0	0	0	0	0	0	0	54,406
National Institutes of Health ⁵	54,406	0	0	0	0	0	0	0	54,406
Other agencies:									
National Aeronautics & Space Admin	72,867	26,694	10,452	2,473	195	4,536	8,071	9,014	11,432
National Science Foundation	309,107	0	0	27,034	32,383	33,834	38,800	129,030	48,026

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³ This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

⁴ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁵ Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1995.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal Funds Survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-71. Federal obligations for basic research performed at universities and colleges
in mathematics and computer sciences and in social sciences,
by agency and detailed field of science: fiscal year 1995**

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	313,803	131,654	174,363	7,786	112,070	10,786	22,311	6,590	8,343	64,040
Departments:										
Department of Agriculture, total	1,341	165	1,176	0	15,019	0	12,095	0	2,924	0
Agricultural Research Service ¹	1,176	0	1,176	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service ²	0	0	0	0	14,044	0	11,209	0	2,835	0
Economic Research Service	0	0	0	0	318	0	318	0	0	0
Forest Service	165	165	0	0	657	0	568	0	89	0
Department of Defense, total	93,234	34,721	56,569	1,944	0	0	0	0	0	0
Department of the Army	10,064	5,236	4,769	59	0	0	0	0	0	0
Department of the Navy	23,075	12,190	10,885	0	0	0	0	0	0	0
Department of the Air Force	14,226	9,105	3,236	1,885	0	0	0	0	0	0
Defense Agencies, total	45,869	8,190	37,679	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency ³	13,510	0	13,510	0	0	0	0	0	0	0
Washington Headquarters Svcs ⁴	32,359	8,190	24,169	0	0	0	0	0	0	0
Department of Energy	13,272	8,908	4,364	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	18,135	12,090	6,045	0	36,270	0	0	0	0	36,270
National Institutes of Health ⁵	18,135	12,090	6,045	0	36,270	0	0	0	0	36,270
Other agencies:										
National Aeronautics & Space Admin	23,152	837	17,170	5,145	413	0	0	0	0	413
National Science Foundation	164,669	74,933	89,039	697	60,368	10,786	10,216	6,590	5,419	27,357

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